



Blast 2 Sequences results

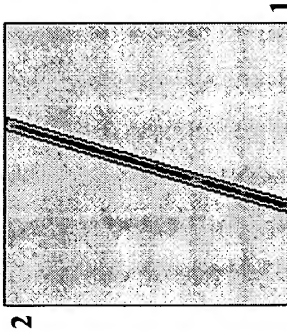
PubMed Entrez BLAST OMIM Taxonomy Structure

BLAST 2 SEQUENCES RESULTS VERSION BLASTN 2.2.10 [Oct-19-2004]

Match: Mismatch: gap open: gap extension:
x_dropoff: expect: wordsize: Filter ☒ Align

Sequence 1 lc|seq_1 Length 8509 (1 .. 8509)

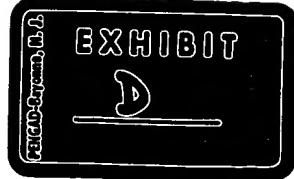
Sequence 2 lc|seq_2 Length 2517 (1 .. 2517)



NOTE: The statistics (bitscore and expect value) is calculated based on the size of nr database

NOTE: If protein translation is reversed, please repeat the search with reverse strand of the query sequence

Score = 4813 bits (2503), Expect = 0.0
Identities = 2510/2517 (99%)
Strand = Plus / Plus



Query: 2955 ggcaatgggtcgaaattcatagaaattttgtgtgaggtgcgtagcggctctgacaggggtg 3014

Sbjct: 1 ggcaatgggtcgaaattcatagaaattttgtgtgaggtgcgtagcggctctgacaggggtg 60

Query: 3015 ctgcgcgagagatctctggtctcaggtagggcgacaaatggagaggttagttgccccctg 3074

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|||||
Sbjct: 61 ctgcgcggagatctctgtctcaggtaggcgacaaatggagagggtgttagttgccccctg 120

Query: 3075 tatcgctctctgcgtggcgcattgggtcatcctgcccgacatatgatattccgctagag 3134
|||||
Sbjct: 121 tatcgctctctgcgtggcgcattgggtcatcctgcccgacatatgatattccgctagag 180

Query: 3135 gattactgatagtttctgcctgtcgggcttgcgggcttgcgggcttgcgggcttgtc 3194
|||||
Sbjct: 181 gattactgatagtttctgcctgtcgggcttgcgggcttgcgggcttgcgggcttgtc 240

Query: 3195 gggcctgtccctcttctgtcccgccctgtcctcactttttcacaaatcaaaaaatgggcgaagc 3254
|||||
Sbjct: 241 gggcctgtccctcttctgtcccgccctgtcctcactttttcacaaatcaaaaaatgggcgaagc 300

Query: 3255 ccttctgttctctatagttcttctatagttcatacgaataattacacataattatcaatagctt 3314
|||||
Sbjct: 301 ccttctgttctctatagttcttctatagttcatacgaataattacacataattatcaatagctt 360

Query: 3315 attcgcttaaaaggaggagtaattggccgcgcaaaaggaggagtaattggccgcgcaaaaggaggag 3374
|||||
Sbjct: 361 attcgcttaaaaggaggagtaattggccgcgcaaaaggaggagtaattggccgcgcaaaaggaggag 420

Query: 3375 aattggccgcgcaaaaggaggagtaattggccgcgatatcgggtgtttacatggggagggaatcc 3434
|||||
Sbjct: 421 aattggccgcgcaaaaggaggagtaattggccgcgatatcgggtgtttacatggggagggaatcc 480

Query: 3435 ccttaatacatcttctcccccatgggaaagacacaacaagtggccgcagaccgggccttcgac 3494
|||||
Sbjct: 481 ccttaatacatcttctcccccatgggaaagacacaacaagtggccgcagaccgggccttcgac 540

Query: 3495 cagacaaaaaactgtgctccctgccgaggtggcgagaggggtctctatatcgcaaatccgccc 3554
|||||
Sbjct: 541 cagacaaaaaactgtgctccctgccgaggtggcgagaggggtctctatatcgcaaatccgccc 600
```

Query: 3555 cgcctgcaggcgctcaagctcatgcatttaatgatagccactgcgggcgcgcgatggct 3614
|||||
Sbjct: 601 cgcctgcaggcgctcaagctcatgcatttaatgatagccactgcgggcgcgcgatggct 660

Query: 3615 gatgatgtgcgccatgaaatcggtgctgcccgcacattcgcgcaatcgacggcatgaaaaac 3674
|||||
Sbjct: 661 gatgatgtgcgccatgaaatcggtgctgcccgcacattcgcgcaatcgacggcatgaaaaac 720

Query: 3675 catgacctgagagcctgacccccgctgttcgaggagctagccgctgcggtgttgacccat 3734
|||||
Sbjct: 721 catgacctgagagcctgacccccgctgttcgaggagctagccgctgcggtgttgacccat 780

Query: 3735 gatgacctgcaaaagatgatcgtgacagtcggcggttggtcgatgaggcgcgaaatagac 3794
|||||
Sbjct: 781 gatgacctgcaaaagatgatcgtgacagtcggcggttggtcgatgaggcgcgaaatagac 840

Query: 3795 taccgccaggaggcaagcgcggaactcctagtgcgtggaccttcgggagtacattccgt 3854
|||||
Sbjct: 841 taccgccaggaggcaagcgcggaactcctagtgcgtggaccttcgggagtacattccgt 900

Query: 3855 cgtatggcggcgagtcgaaccactggccattctcgaccgtcaaacgggtattccatctc 3914
|||||
Sbjct: 901 cgtatggcggcgagtcgaaccactggccattctcgaccgtcaaacgggtattccatctc 960

Query: 3915 ggtagtaagtattccgtgctgctgttcagcagcagctctctagtctcgccaatcttgatcgg 3974
|||||
Sbjct: 961 ggtagtaagtattccgtgctgctgttcagcagcagctctctagtctcgccaatcttgatcgg 1020

Query: 3975 atgagcgcgaaaaacctttacggtcccccaggttgcgggcgctccttgagtgccccgagggg 4034
|||||
Sbjct: 1021 atgagcgcgaaaaacctttacggtcccccaggttgcgggcgctccttgagtgccccgagggg 1080

Query: 4035 aagatggttcggttggaacgacgcttaacagatttgctctcaaacctgcactggatgagatc 4094
|||||
Sbjct: 1081 aagatggttcggttggaacgacgcttaacagatttgctctcaaacctgcactggatgagatc 1140

Query: 4095 aaccatttatcgctctgacattgacgggcaaaagccgaccaagattggccgtagcgtggca 4154
|||||
Sbjct: 1141 aaccatttatcgctctgacattgacgggcaaaagccgaccaagattggccgtagcgtggca 1200

Query: 4155 agtgtgactataggctgggaagtgaagacgacccaaccctgcagggcgcgagctggcg 4214
|||||
Sbjct: 1201 agtgtgactataggctgggaagtgaagacgacccaaccctgcagggcgcgagctggcg 1260

Query: 4215 ggttccaaagtcggtcgagatgctcgtcgagaggggcagcggaacgatagccccctcc 4274
|||||
Sbjct: 1261 ggttccaaagtcggtcgagatgctcgtcgagaggggcagcggaacgatagccccctcc 1320

Query: 4275 ttcccagaagcggcggtcgatcacctacagtcacgttggctggagctgaaacgctctgct 4334
|||||
Sbjct: 1321 ttcccagaagcggcggtcgatcacctacagtcacgttggctggagctgaaacgctctgct 1380

Query: 4335 ggcagcaacaaggacaaacgatctgatcgccctcagacttcggcgcttctgtcgggagaga 4394
|||||
Sbjct: 1381 ggcagcaacaaggacaaacgatctgatcgccctcagacttcggcgcttctgtcgggagaga 1440

Query: 4395 ggcgtgcgtctggacgctgcaaaacatcgaaaaaactgtttttagatttctgcgcaaaagta 4454
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Sbjct: 1441 ggcgtgcgtctggacgctgcaaaacatcgaaaaaactgttttttagatttctgcgcaaaagta 1500

Query: 4455 gggaaggtttgagttttgaggtatttcaccgcgaatagtggttaaatgactttcgtgaaacg 4514
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Sbjct: 1501 gggaaggtttgagttttgaggtatttcaccgcgaatagtggttaaatgactttcgtgaaacg 1560

Query: 4515 atgtgcaatatagcggtaagactatgaaatacacgcgctggacaggtgcataaaagcaaacgg 4574
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Sbjct: 1561 atgtgcaatatagcggtaagactatgaaatacacgcgctggacaggtgcataaaagcaaacgg 1620

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Sbjct: 1621 gtgtggcgaccgcaaccatcactcggcgctaaaaaagcgggtataatttccgggtaaaaaaag 1680

Query: 4635 atgaatctggggcatgggttatagatcctgcagaattgcacagagtgttctcccatatt 4694
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Sbjct: 1681 atgaatctggggcatgggttatagatcctgcagaattgcacagagtgttctcccatatt 1740

Query: 4695 caaagaaatacacaccgaaacacacctaaacacgcaagtatatgttaagcgtgatgaaacacatg 4754
|||||
Sbjct: 1741 caaagaaatacacaccgaaacacacctaaacacgcaagtatatgttaagcgtgatgaaacacatg 1800

Query: 4755 aaatgacctcagaaaatcagcgcattagagcgtgaagttcggactttacgcgatgctttat 4814
|||||
Sbjct: 1801 aaatgacctcagaaaatcagcgcattagagcgtgaagttcggactttacgcgatgctttat 1860

Query: 4815 ctgatgccaggaggatcgcgacaaaatggcgcgacatggccgagcgtctttcaatttcacat 4874
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Sbjct: 1861 ctgatgccaggaggatcgcgacaaaatggcgcgacatggccgagcgtctttcaatttcacat 1920

Query: 4875 caccgatgagagaggaagaccgccccctcaaaaaaagatggtggaagatatcttgat 4934
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Sbjct: 1921 caccgatgagagaggaagaccgccccctcaaaaaaagatggtggaagatatcttgat 1980

Query: 4935 cctgggcttcaggagccttgccctttaaacctgaatcagcattcttagcgatgctgataag 4994
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Sbjct: 1981 cctgggcttcaggagccttgccctttaaacctgaatcagcattcttagcgatgctgataag 2040

Query: 4995 aagtaaatatagccacaataagagcggccattttccattcacatacacagtcacatgtgat 5054
|||||
Sbjct: 2041 aagtaaatatagccacaataagagcggccattttccattcacatacacagtcacatgtgat 2100

Query: 5055 caatatcaagtattgatattcatcaatggagaagaatttacatgtatcacaggatcatca 5114
|||||
Sbjct: 2101 caatatcaagtattgatattcatcaatggagaagaatttacatgtatcacaggatcatca 2160

Query: 5115 cagcatttgttttgtatttctaagtgttaacataaactatcgctggccctaaagaagatt 5174
|||||

Sbjct: 2161 cagcatttggttttgtattttctaagtgtacataaactatcgctggccctaaagaagatt 2220

Query: 5175 gtactattgcagtatctcaccttgggtttcagaccgataaattacagctttgtcgaagcgg 5234
|||||

Sbjct: 2221 gtactattgcagtatctcaccttgggtttcagaccgataaattacagctttgtcgaagcgg 2280

Query: 5235 gnnnnnnngccagagagagacacgcttttttgatggtgtaataaaactgctacgtatctcatg 5294
| |||||

Sbjct: 2281 gttttttgccagagagagacacgcttttttgatggtgtaataaaactgctacgtatctcatg 2340

Query: 5295 atggtaacatacacacagcatcatccgggggcaacacacacctcttatggaagatggatatattatg 5354
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Sbjct: 2341 atggtaacatacacacagcatcatccgggggcaacacacacctcttatggaagatggatatattatg 2400

Query: 5355 gccagaagtactggcggaataaacgcgatattgaggcacaggcccgcaacttttagaggcgg 5414
|||||

Sbjct: 2401 gccagaagtactggcggaataaacgcgatattgaggcacaggcccgcaacttttagaggcgg 2460

Query: 5415 aagcctataacgagtagtaccataaacactagaagccagattgaggaaaaatagggaaacgtg 5471
|||||

Sbjct: 2461 aagcctataacgagtagtaccataaacactagaagccagattgaggaaaaatagggaaacgtg 2517

CPU time: 0.07 user secs. 0.01 sys. secs 0.08 total secs.

Lambda K H
1.33 0.621 1.12

Gapped
Lambda K H
1.33 0.621 1.12

Matrix: blastn matrix:1 -2
Gap Penalties: Existence: 5, Extension: 2
Number of Sequences: 1
Number of Hits to DB: 908
Number of extensions: 21
Number of successful extensions: 14
Number of sequences better than 10.0: 1

Number of HSP's better than 10.0 without gapping: 1
Number of HSP's gapped: 2
Number of HSP's successfully gapped: 1
Number of extra gapped extensions for HSPs above 10.0: 0
Length of query: 8509
Length of database: 12,527,565,053
Length adjustment: 28
Effective length of query: 8481
Effective length of database: 12,527,565,025
Effective search space: 106246278977025
Effective search space used: 106246278977025
Neighboring words threshold: 0
Window for multiple hits: 0
X1: 11 (21.1 bits)
X2: 26 (50.0 bits)
X3: 26 (50.0 bits)
S1: 12 (23.8 bits)
S2: 23 (44.9 bits)